

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	173	S182 and (optical adj1 (board or circuit)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/09 21:04
		S167 and (data adj1 (size or length)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/08 15:06
		S131 and parameter#1	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/08 12:26
		S127 and (modulat\$4 or control) adj1 parameter)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/05 18:45
		(variable adj1 data) adj1 rate and ("398"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/30 16:40
		S59 and ((data adj2 rate) adj4 control\$5)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/30 15:47
		S35 and modulat\$4 and	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/28 12:37
		S28 and histor adj1 gram)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/28 11:10
		398/431-463.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/28 11:06
		S21 and optical adj1 transmitter)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/28 10:54
		S15 and ((data or bandwidth) adj1 estimation))	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/14 10:48
S1	173	398/187.ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/27 15:57
S2	163	S1 and modulat\$4	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/27 15:52

## EAST Search History

S3	91	398/52.ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/27 15:57
S4	2	("5438444"   "5953142").PN. OR ("6741810").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/27 16:17
S5	57	"4701904"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/27 16:22
S6	32	"5351148"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/27 16:32
S7	2	fdm and (data adj1 estimation)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/27 16:33
S8	720	data adj1 estimation	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/27 16:33
S9	217	S8 and multiplex\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/27 16:33
S10	39	S9 and optical	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/27 16:55
S11	5	"6078412"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/27 16:55
S12	15	("4061577"   "4701904"   "4953156"   "5351148"   "5387927"   "5430568"   "5559561"   "5576874"   "5596436"   "5680238"   "5930231"   "6078412"   "6234427").PN. OR ("6407843"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/27 17:06
S13	32	"5351148"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/27 17:15
S14	14196	"398"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/27 17:15
S15	253	S14 and qam	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/27 17:15

## EAST Search History

S16	1	S15 and ((data or bandwidth) adj1 estimation)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/27 17:16
S17	4	S15 and ((data or bandwidth) adj1 estimat\$5)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/27 17:21
S18	15	"665773"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/27 17:22
S19	3	"6657773"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/27 17:33
S20	7	"6486986"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/27 17:33
S21	1282	bit adj2 estimat\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/28 10:55
S22	265799	S21 and optical transmitter	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/28 10:54
S23	4	S21 and (optical adj1 transmitter)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/28 10:54
S24	751	S21 and parameter\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/28 10:56
S25	485	S24 and modulat\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/28 11:06
S26	8540	370/431-463.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/28 11:06
S27	2044	S26 and optical	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/28 11:06
S28	710	S27 and modulat\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/28 11:07
S29	172	S28 and estimat\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/28 11:09
S30	0	S28 and histogram	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/28 11:10

## EAST Search History

S31	0	S28 and (histor adj1 gram)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/28 11:10
S32	0	S28 and (histo adj1 gram)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/28 11:29
S33	44	(constellation adj1 level) and qam and modulat\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/28 12:37
S34	1097	398/25-38.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/28 12:37
S35	1097	398/25-38.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/28 12:37
S36	639	S35 and modulat\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/28 12:37
S37	43	S36 and (fdm or tdm)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/28 12:56
S38	21	S36 and schedul\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/28 13:09
S39	25783	fdm or tdm	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/28 13:10
S40	3	S39 and (allocation or provision\$4) and modulat\$4 and paramter	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/28 13:11
S41	3	S39 and (allocation or provision\$4) and paramter	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/28 13:11
S42	3089	S39 and (allocation or provision\$4) and parameter	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/28 13:11
S43	2013	S39 and (allocation or provision\$4) and modulat\$4 and parameter	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/28 13:12
S44	1145	S43 and optical	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/28 13:12
S45	500	S44 and (bit adj2 rate)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/28 13:12

## EAST Search History

S46	438	S45 and service	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/28 14:07
S47	96	398/198.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/30 15:45
S48	195	398/46,47,52.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/28 14:38
S49	72	overlap adj2 burst	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/29 10:20
S50	4	S49 and header and packet	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/29 10:36
S51	12081	data adj2 estimat\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/30 14:31
S52	2950	S51 and transmitter	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/30 14:24
S53	2098	S52 and modulat\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/30 14:25
S54	1243	S53 and (parameter or characteristic)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/30 14:27
S55	17	S54 and (optical adj1 transmitter)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/30 14:27
S56	28	S51 and (optical adj1 transmitter)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/30 14:31
S57	11	S56 not S55	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/30 14:31
S58	14222	"398"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/15 18:28
S59	2842	S58 and (optical adj1 transmitter)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/30 15:45
S60	12	S59 and ((data adj2 rate) adj4 control)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/30 15:47

## EAST Search History

S61	14	S59 and ((data adj2 rate) adj4 control\$4)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/30 16:25
S62	40	398/176.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/30 16:35
S63	869	(variable adj1 data) adj1 rate	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/30 16:40
S64	0	S63 and modualtion	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/30 16:37
S65	501	S63 and modulation	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/30 16:37
S66	379	S65 and transmitter	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/30 16:37
S67	0	S66 and opticia	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/30 16:37
S68	88	S66 and optical	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/30 16:37
S69	8	(variable adj1 data) adj1 rate and ("398"/\$.ccls.)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/30 16:40
S70	10	("4713841"   "4989212"   "5214526"   "5315426"   "5631503"   "5689248"   "6043920"   "6151149"   "6445477").PN. OR ("6661975").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/30 17:37
S71	7	"6396605"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/30 17:37
S72	11	("5978129"   "6069534"   "6175320"   "6246500"   "6252692").PN. OR ("6396605").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/30 17:38
S73	7	("5978129"   "6069534"   "6246500"   "6252692"   "6396605").PN. OR ("6469817").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/30 17:42
S74	12	"6064507"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/30 17:44

## EAST Search History

S75	75	stable adj3 (interferometer)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/30 17:46
S76	0	S75 and ber	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/30 17:44
S77	3349	multirate or (multi adj1 rate)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/30 17:47
S78	27	S77 and interferometer	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/30 17:47
S79	1907	group adj4 classification	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/01 14:56
S80	90	S79 and transmitter	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/01 14:59
S81	3354	multirate or (multi adj1 rate)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/01 14:59
S82	246	S81 and classification	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/01 15:08
S83	0	S81 and (group adj1 classification)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/01 15:09
S84	2	S81 and (group adj5 classification)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/01 15:12
S85	32	"5351148"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/01 15:12
S86	35	("4953156"   "4961190"   "5016242"   "5020049").PN. OR ("5351148").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/01 15:18
S87	5	"6078412"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/01 15:18
S88	15	("4061577"   "4701904"   "4953156"   "5351148"   "5387927"   "5430568"   "5559561"   "5576874"   "5596436"   "5680238"   "5930231"   "6078412"   "6234427").PN. OR ("6407843"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/01 15:29

## EAST Search History

S89	6	("5016242"   "5351148").PN. OR ("6078412").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/01 15:38
S90	6	("5016242"   "5351148").PN. OR ("6078412").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/03 16:17
S91	35	("4953156"   "4961190"   "5016242"   "5020049").PN. OR ("5351148").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/03 16:18
S92	6	("5016242"   "5351148").PN. OR ("6078412").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/04 13:55
S93	729	"359/187"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/04 14:00
S94	569	S93 and modulat\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/04 13:55
S95	491	S94 and control	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/04 13:56
S96	289	S95 and receiver	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/04 13:58
S97	27690	frequency adj1 division	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/04 13:58
S98	13	S96 and (frequency adj1 division)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/04 13:58
S99	406	"359/114"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/04 14:02
S10 0	0	S99 and ecoder and modulat\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/04 14:03
S10 1	12	S99 and encoder and modulat\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/04 14:03



## EAST Search History

S10 2	42	("4641371"   "4677618"   "4736120"   "4807227"   "4933929"   "4945531"   "4989199"   "5050952"   "5065396"   "5140456"   "5157530"   "5166821"   "5185736"   "5200964"   "5257124"   "5267073"   "5271024"   "5283686"   "5295209"   "5321543"   "5339183"   "5363229"   "5455699"   "5461622"   "5465267"   "5467212"   "5483372"   "5487120"   "5493625"   "5504609"   "5532864"   "5557439"   "5559910"   "5608571"   "5710650"   "5715076"   "5784184"   "5887039"   "5938309"   "6031644"   "6233077").PN. OR ("6618176"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/04 14:04
S10 3	38	("5351147"   "5483372"   "5504609"   "5557439"   "5581566"   "5589969").PN. OR ("5938309"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/04 14:07
S10 4	49	("4694471"   "4995101"   "5018142"   "5311346"   "5504609"   "5532864"   "5557439"   "5602669"   "5671156"   "5680238"   "5696615"   "5712932"   "5715076"   "5726784"   "5745582"   "5784184"   "5798855"   "5808760"   "5808766"   "5938309"   "5940439"   "5969840"   "6031644"   "6040933"   "6115157"   "6181450"   "6185022"   "6226296"   "6233077").PN. OR ("6433904").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/05 18:05
S10 5	322	fdm and qam and feedback	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/05 18:06
S10 6	185	S105 and optic\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/05 18:06
S10 7	178	S106 and receiver	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/05 18:07
S10 8	44	S107 and ("359" or "398")	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/05 18:17
S10 9	3721	370/249-252.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/05 18:17

## EAST Search History

S11 0	547	S109 and transmitter and receiver and modulats\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/05 18:17
S11 1	530	S110 and data	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/05 18:18
S11 2	159	S111 and feedback	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/05 18:24
S11 3	5565	data adj1 estimats\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/05 18:25
S11 4	1225	S113 and transmitter	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/05 18:25
S11 5	865	S114 and modulats\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/05 18:25
S11 6	370	S115 and parameter	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/05 18:25
S11 7	168	S116 and feedback	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/05 18:37
S11 8	2186	370/468.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/05 18:37
S11 9	410	S118 and transmitter and receiver and modulats\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/05 18:37
S12 0	94	S119 and optical	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/05 18:43
S12 1	100225	"359"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/05 18:44
S12 2	14257	"398"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/05 18:44
S12 3	112688	S121 or S122	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/05 18:44
S12 4	0	S123 and fdm and transmitter and receiver and modulats\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/05 18:44

## EAST Search History

S12 5	5925	S123 and transmitter and receiver and modulats\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/05 18:45
S12 6	1082	S125 and parameter	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/05 18:45
S12 7	541	S126 and feedback	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/05 18:45
S12 8	32	S127 and ((modulats\$4 or control) adj1 parameter)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/05 18:45
S12 9	10	("5351148"   "5715076"   "5896211"   "6040933").PN. OR ("6452707").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/08 09:50
S13 0	36	("4953156"   "4961190"   "5016242"   "5020049").PN. OR ("5351148").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/08 10:04
S13 1	6635	orthogonal adj1 (frequency adj1 division)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/08 12:26
S13 2	68	S131 and (modulation adj1 parameter\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/08 10:10
S13 3	56	"5161044"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/08 10:16
S13 4	20	fuse.in. and (frequency adj1 division)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/08 10:16
S13 5	12	("4893300"   "5020049"   "5351148"   "5596436").PN. OR ("5850303").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/08 12:07
S13 6	25	"5818813"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/08 12:16
S13 7	0	EP1408710	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/08 12:16
S13 8	10	"1408710"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/08 12:17

## EAST Search History

S13 9	3175	S131 and parameter\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/08 12:26
S14 0	2304	S139 and transmitter and receiver	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/08 12:26
S14 1	892	S140 and feedback	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/08 12:26
S14 2	312	S141 and optic\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/08 12:31
S14 3	51	"5243629"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/08 13:12
S14 4	1	"20020080884"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/08 13:25
S14 5	3	"6532267"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/08 13:25
S14 6	11	("5265127"   "5881108"   "5923651"   "6101223"   "6115415"   "6167082"   "6272108"   "6307893"   "6310909").PN. OR ("6532267").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/08 13:51
S14 7	618	constellation adj1 size	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/08 14:01
S14 8	20	S147 and histogram	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/08 13:51
S14 9	71	constellation adj1 level\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/08 14:00
S15 0	3	S149 and histogram	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/08 14:00
S15 1	0	S137 and (data)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/08 14:01
S15 2	610	S147 and data	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/08 14:02
S15 3	492	S152 and (estimation or amount)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/08 14:02

## EAST Search History

S15 4	144	S152 and (data near3 (estimation or amount))	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/08 14:02
S15 5	130	S152 and (data near2 (estimation or amount))	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/08 14:02
S15 6	105	S152 and (data near (estimation or amount))	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/08 14:02
S15 7	3	S152 and (data adj (estimation or amount))	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/08 14:03
S15 8	57	S152 and (data adj4 (estimation or amount))	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/08 14:40
S15 9	3	S152 and (data adj1 (estimation or amount))	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/08 14:03
S16 0	1	"20060018258"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/08 14:46
S16 1	1	"6992972"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/08 14:52
S16 2	16254	data adj1 (size)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/08 14:52
S16 3	3	S162 and (constellation adj1 size)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/08 14:53
S16 4	53	fdm and (constellation adj1 size)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/08 15:05
S16 5	498	375/298.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/08 15:05
S16 6	234	S165 and constellation	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/08 15:05
S16 7	224	S166 and modulation	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/08 15:05
S16 8	58	S167 and parameter	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/08 16:27

## EAST Search History

S16 9	2	S167 and (data adj1 (size or length))	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/08 15:06
S17 0	8	variable adj1 qam	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/08 16:31
S17 1	1961	qam and constellation and size and transmitter and data	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/08 16:32
S17 2	1175	S171 and ((data adj1 size) or (data adj1 rate))	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/08 16:32
S17 3	41	S172 and ((variable or dynamic) adj2 constellation)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/08 16:33
S17 4	11	("5265127"   "5881108"   "5923651"   "6101223"   "6115415"   "6167082"   "6272108"   "6307893"   "6310909").PN. OR ("6532267").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/08 17:00
S17 5	0	(constellation adj3 modif\$4) and (data adj1 size)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/08 17:01
S17 6	62	(constellation adj3 modif\$4)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/09 18:05
S17 7	18	"6304690"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/09 18:56
S17 8	28	"5787214"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/09 20:27
S17 9	8	"6075914"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/09 20:33
S18 0	1	"6498666"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/09 21:03
S18 1	3162	385/24.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/09 21:04
S18 2	379	S181 and (demux or demultiplexer or demultiplexor) and transmitter and receiver	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/09 21:04
S18 3	29	S182 and (optical adj1 (board or circuit))	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/09 21:25

## EAST Search History

S18 4	10	"5923451"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/09 21:35
S18 5	10	"5923451"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/09 21:35
S18 6	23	("5245680"   "5362961"   "5726788"   "5812708"   "5822475"   "5832147"   "5889903"   "5923451"   "5995262"   "6021243"   "6038048"   "6058228"   "6125217"   "6215585"   "6236778"   "6317242"   "6343171"   "6366375").PN. OR ("6661940"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/09 21:39
S18 7	14	("4612670"   "4850044"   "4870637"   "4872739"   "5245680").PN. OR ("5923451"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/10 13:23
S18 8	6	"6661940"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/10 13:44
S18 9	279	398/164.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/10 13:44
S19 0	28	S189 and (demultiplexer or demux or demultiplexor)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/10 13:44
S19 1	1777	qam and constellation and feedback	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/10 14:56
S19 2	1535	S191 and transmitter and receiver	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/10 14:56
S19 3	940	S192 and variable	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/10 14:57
S19 4	183	S193 and (constellation adj1 size)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/10 15:53
S19 5	271	qam adj2 transmitter	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/10 15:54
S19 6	103	S195 and encoder and constellation	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/10 15:54

## EAST Search History

S19 7	4	("4965787"   "4980897").PN. OR ("6370202").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/10 16:05
S19 8	112	370/268,300.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/11 14:21
S19 9	2	S198 and qam and constellation	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/11 14:40
S20 0	33	"5533004"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/11 14:24
S20 1	39	("4495619"   "5117453"   "5182746"   "5197061"   "5233629"   "5305352"   "5369637"   "5377194").PN. OR ("5533004").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/11 14:24
S20 2	3	S198 and qam	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/11 14:39
S20 3	3	S198 and constellation	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/11 14:38
S20 4	4028	qam and constellation	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/11 14:40
S20 5	366	S204 and (data adj1 block)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/11 14:40
S20 6	285	S205 and size	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/11 15:01
S20 7	61	"4495619"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/11 15:01
S20 8	5	("5751741").PN. OR ("6134273").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/11 15:17
S20 9	10	("4980897").PN. OR ("6252912").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/11 16:01
S21 0	98	qam and histogram and constellation	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/11 16:27
S21 1	19424	wu.in.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/11 16:33



## EAST Search History

S21 2	1	"20020054732"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/11 16:36
S21 3	8	"6674754"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/11 16:36
S21 4	17	("5418779"   "6038230"   "6259695"   "6272131"   "6272132"   "6330236"   "6351474"   "6377579"   "6385198"   "6442135").PN. OR ("6674754"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/11 16:38
S21 5	17	("5418779"   "6038230"   "6259695"   "6272131"   "6272132"   "6330236"   "6351474"   "6377579"   "6385198"   "6442135").PN. OR ("6674754"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/11 16:50
S21 6	8	"6671256"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/11 16:50
S21 7	15	("20020054732"   "5416769"   "5469284"   "5486943"   "5734486"   "5737106"   "5764392"   "5781537").PN. OR ("6671256"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/11 17:03
S21 8	3	"6661789"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/11 18:26
S21 9	10	"5923451"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/11 18:26
S22 0	33	"5351148"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/15 17:42
S22 1	10	("5351148"   "5715076"   "5896211"   "5937126"   "6040933"   "6229631"   "6259543"   "6396606"   "6433904").PN. OR ("6604872").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/15 17:46
S22 2	15	("4061577"   "4701904"   "4953156"   "5351148"   "5387927"   "5430568"   "5559561"   "5576874"   "5596436"   "5680238"   "5930231"   "6078412"   "6234427").PN. OR ("6407843"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/15 18:06

## EAST Search History

S22 3	3	"6407843"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/15 18:25
S22 4	18	fec adj2 feedback	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/15 18:27
S22 5	100390	"359"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/15 18:28
S22 6	14295	"398"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/15 18:28
S22 7	191	(S225 or S226) and fec and feedback	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/15 18:28
S22 8	29214	S225 and (variable or adjustable or dynamic)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/15 18:29
S22 9	138	S227 and (variable or adjustable or dynamic)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/15 18:36
S23 0	22	"6433904"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/15 18:36
S23 1	49	("4694471"   "4995101"   "5018142"   "5311346"   "5504609"   "5532864"   "5557439"   "5602669"   "5671156"   "5680238"   "5696615"   "5712932"   "5715076"   "5726784"   "5745582"   "5784184"   "5798855"   "5808760"   "5808766"   "5938309"   "5940439"   "5969840"   "6031644"   "6040933"   "6115157"   "6181450"   "6185022"   "6226296"   "6233077").PN. OR ("6433904").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/15 18:59
S23 2	288	qam and modulator and encoder and fdm	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/15 19:08
S23 3	149	S232 and (optic\$4)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/15 19:03
S23 4	984	qam and modulator and encoder and optic\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/15 19:08
S23 5	516	S234 and (mux or multiplexer or multiplexor)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/15 19:09

## EAST Search History

S23 6	446	S235 and fiber	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/15 19:15
S23 7	1	"6879640"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/15 19:15
S23 8	7	("4613975"   "5479447"   "5867071"   "6181450"   "6243370"   "6271953"   "6362903").PN. OR ("6879640").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/15 19:33
S23 9	51	"5243629"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/15 19:33
S24 0	59	("3988679"   "4613975"   "4622680"   "4715048"   "4831636"   "4868851"   "4890283"   "4903126"   "4935940"   "4980897").PN. OR ("5243629"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/15 19:43
S24 1	5	"6078412"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/15 20:09
S24 2	33	"5351148"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/16 16:23
S24 3	4	"6763197"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/16 16:51
S24 4	102	fdm and (frequency adj1 converter)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/16 16:51